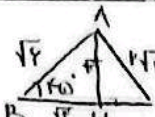


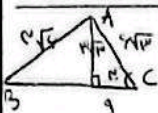
$$(\sin 10^\circ + \sin 40^\circ)(\cos 10^\circ - \cos 40^\circ)$$

$$\left(\frac{\sqrt{y}}{y} + \left(-\frac{\sqrt{2}}{y}\right)\right)\left(\frac{\sqrt{y}}{y} + \frac{\sqrt{2}}{y}\right) = \left(\frac{\sqrt{y}}{y}\right)^2 - \left(\frac{\sqrt{2}}{y}\right)^2 = \frac{y}{y^2} - \frac{2}{y^2} = -\frac{1}{y^2}$$

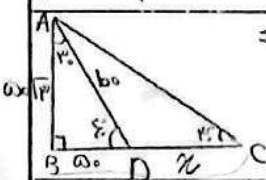
$$\frac{1 + \tan^2 \theta}{\cos^2 \theta + \cos^2 \theta} = \frac{1 + \left(\frac{\sqrt{p}}{q}\right)^2}{\frac{p}{q} + \frac{p}{q}} = \frac{1 + 1}{p + 1} = \frac{p}{p} = 1$$



$\frac{\sqrt{V}}{\frac{1}{\sqrt{V}}} = \frac{\sqrt{V}}{V} = \frac{1}{\sqrt{V}}$
 $\frac{\sqrt{1V}}{V} = \frac{1}{\sqrt{V}}$
 $\sin C = \frac{1}{\sqrt{V}}$
 $\cos C = \frac{\sqrt{V}}{V}$
 $\frac{\sqrt{V}}{K} = \frac{4C}{K\sqrt{V}}$
 $HC = W$

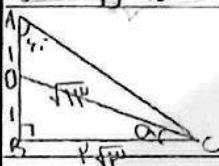



 $\cos \alpha = \frac{\sqrt{p}}{r} = \frac{9}{AC}$
 $\sin \beta = \frac{r\sqrt{p}}{r\sqrt{q}} = \frac{\sqrt{p}}{\sqrt{p} \text{ or } r} = \frac{1}{r} = \frac{\sqrt{p}}{r}$

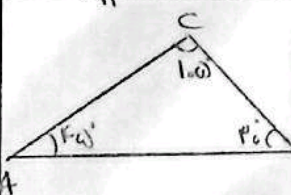


$$\sin \theta_0 = \frac{\sqrt{\mu}}{\mu} = \frac{\omega \cdot \sqrt{\mu}}{\mu} \quad \frac{\omega \cdot \sqrt{\mu}}{\mu} \times \mu = 1 \dots$$

$$\tan \theta_0 = \frac{\omega \cdot \sqrt{\mu}}{\mu + \omega} = \frac{\sqrt{\mu}}{\mu} \quad \frac{\omega \cdot \sqrt{\mu}}{\sqrt{\mu}} \times \mu = \mu + \omega \quad \boxed{\mu = 100}$$

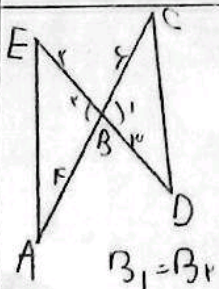


$$\begin{aligned} \sin \alpha &= ? & 1 + \cot^2 \alpha &= \frac{1}{\sin^2 \alpha} \\ \tan^2 \alpha &= \sqrt{p} = \frac{BC}{P} & 1 + p &= \frac{1}{\sin^2 \alpha} & p &= \frac{1}{\sin^2 \alpha} & \sin \alpha &= \frac{1}{\sqrt{p}} \\ BC &= P\sqrt{p} & \cot \alpha &= \sqrt{p} & \sin \alpha &= \frac{1}{\sqrt{p}} & \cos \alpha &= \frac{1}{\sqrt{p}} \end{aligned}$$



$$\frac{AB}{\sin 10^\circ} = \frac{AC}{\sin 70^\circ} \Rightarrow \frac{AB}{AC} = \frac{\sin 10^\circ}{\sin 70^\circ} = \frac{1}{4}$$

$$\sin(\omega + \phi) = \sin \phi \cos \omega + \cos \phi \sin \omega$$



$$\frac{S_{ABE}}{S_{BCD}} = \frac{\frac{1}{Y} \sin B \alpha Y \alpha F}{\frac{1}{Y} \sin B \alpha X \alpha W} = \frac{F}{9}$$

$$\sin^2 \theta = \frac{1 + \frac{\sqrt{10}}{r}}{\frac{\sqrt{10}}{r}} = \frac{\sqrt{10} + 1}{\sqrt{10}}$$

	$ab \sin 140^\circ = \cancel{14} \mu \alpha \frac{\sqrt{2}}{\cancel{14}} = 4\sqrt{2}$	6
	$\frac{1}{2} ab \sin \alpha$ $\frac{1}{\cancel{14}} \alpha \mu \alpha \frac{\sqrt{2}}{\cancel{14}} = 2\sqrt{2}$	
	$r^2 + \epsilon^2 = r_0^2 \quad \sqrt{r_0^2} = r\sqrt{2}$ $\cos \theta = \frac{\cancel{14}}{r\sqrt{2}} = \frac{r}{\sqrt{2}} = \frac{r\sqrt{2}}{2}$	7
	$\tan \theta = 1 = \epsilon \omega^\circ$ $y = x + \frac{\omega}{r}$ $\tan 140^\circ = -\sqrt{2}$ $-\sqrt{2} \propto \frac{\omega}{r} = \left(-\frac{\omega\sqrt{2}}{r} \right)$ $y = mx + b \Rightarrow y = mx + \frac{\omega}{r}$	8
$f\left(\frac{\omega\pi}{4}\right)$	$f(x) = \underbrace{\cos(\pi + x)}_{-\cos x} + \underbrace{\sin\left(\frac{\pi}{r} - x\right)}_{+\cos x} - \underbrace{\tan\left(\frac{\omega\pi}{r} + x\right)}_{-(-\cot x)} + \cot x$ $f(x) = \cot x$	9
$f\left(\frac{\omega\pi}{4}\right) = \cot\left(\frac{\omega\pi}{4}\right) = -\sqrt{2}$	$\frac{\sin\left(\frac{14\pi}{4} + x\right) + \cos\left(\frac{14\pi}{4} - x\right)}{\cos\left(\frac{14\pi}{4} + x\right) - \sin\left(\frac{14\pi}{4} - x\right)} = \frac{\cos x + (-\sin x)}{-\cos x + \sin x} = -1$	10